# **KINMOTOR**



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## Zhejiang Jinzhou Electromechanical Technology Co., Ltd.

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# PRODUCT CATALOGUE

SERVO CHAIN HOIST WORKSTATION SMART HOIST VARIABLE FREQUENCY CHAIN HOIST

Zhejiang Jinzhou Electromechanical Technology Co., Ltd.

# **ABOUT** US

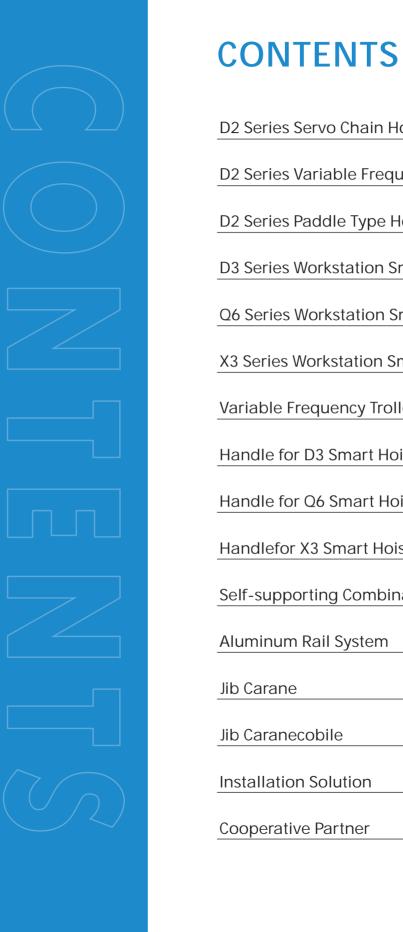
Zhejiang Jinzhou Electromechanical Technology Co., Ltd. is a subsidiary of Zhejiang New Folinn Co., Ltd., which is the key of the servo motors and light hoist with a provincial-level high-tech enterprise.

We process a series of high-performance and high-efficiency smart hoist with the professional research and development team according to the core drive technology of our parent company and our own servo motor technology. The core products include workstation smart hoist, servo chain hoist and variable frequency chain hoist, which are suitable for the light lifting and handling industry.

At the same time, the company making effort in practical applications. Provide customers with safe, efficient, and user-friendly plan.

In the future, we will still persist in innovation. The technology and quality will continue to strengthen. We will persist in working hand in hand with customers to create brilliance together.





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# Innovation Leads The Future

#### Controller -

1.Accurate positioning: Zero-speed servo function, lifting the work pieces smoothly, with a speed control ratio of up to 1:1000. And a minimum lifting speed can achieve 0.05m/min (zero speed start), which makes it easier to control the work pieces without vibration and noise.

2.Wide speed servo range and efficient operation: When unloaded or below 10% of the rated load, can reach the fastest lifting (1.9 times higher than the normal speed) 3. Diverse interfaces adapt to various control signal, which is flexible.

#### Encoder -

1. Adopting a high-resolution magnetic encoder with fast response rate.

2. Long life.

3. High control accuracy, achieving precise positioning.

### Special Drive Cover •

1.Adopting intergrate aluminum die-casting technology. This is used for the assembly of driver modules, allowing the driver modules to come together. It can improve heat dissipation efficiency and increases product stability. 2.Dustproof, waterproof, and easy to dissipate heat. 3.Protection level up to IP55.

#### Status Display Screen

Display the current operating speed (n.nn m/min), fault status and other information in real time.



#### Gearbox -

All shift position in the gearbox are engaged with helical gears. So noise is effectively reduced. And Operation is smooth. Product life is extended.

#### Round Steel Chain •

1. High strength and aging resistant materials with high surface strength.

2. After special surface treatment to prevent rust.

3.Can select additional rust protection, suitable for food industry and extreme dust environments.

#### Hange

Articulated suspension and smaller hook size C, which can optimize headroom.

#### Shell

The sturdy and lightweight Aluminum alloy shell adopts modern industrial design.

#### Electromagnetic Brake

1. Fully utilizing the characteristics of servo controlled electronic brakes. At the same time, it adopts electromagnetic brake, no shaking during the lifting process, ensuring smooth operation and safe braking.

2. The combination of electronic brake and electromagnetic brake can fully reduce the wear of the brake pads. The life of the electromagnetic brake and the entire equipment has been extended.

#### Servo Motor

1.Specially designed servo motor for lifting, which can achieve lifting at zero speed.(under rated load state) and accurately controlling the speed.2. Without fan, ample power margin.

#### Direct Connection Structure

1. Adopting a direct connection structure, there will be no slippage and ensuring control precision.

2.Through special algorithms of servo control, electronic clutch technology is implemented to provide reliable protection against overload situations.

### Chain box

1.1.Articulated installation, using highly impact resistant plastic material.2.Metal chain box, suitable for larger hook travel.

## **D2 Series Servo Chain Hoist**



• E2 Stepless Gear Handle(for select)



Handle for selecting

D2 2 key Stepless speed change Handle

## Product Brief

It adopts aluminum shell, which is lightweight and sturdy. Adopting low headroom, servo drive control and special servo motors, which can fully utilize advantages of hoist.

The direct connection method of the motor shaft ensures stable lifting without slipping, and adopts overload protection of motor control technology to ensure the safety and reliability of the system. The hoist has wide speed range and high accuracy. The minimum speed is 0.05m/min. The equipment is safe and reliable with complete protection functions and fast response speed. The control interface is diverse, making it easy for various workstations to control, especially suitable for high-precision assembly.

## Product Features

- Specially designed servo motor for smooth operation performance.
- The system has soft limit, reducing the risk of collision and providing flexible working range.
- Stepless speed change and accurate positioning. It has wide speed range and high accuracy. The minimum speed can reach 0.05m/min.
- Low noise. Smooth operation without vibration. High precision.
- The design of electronic friction clutch can maximize the life of the entire machine. And it does not require maintenance.
- Diverse interfaces, adaptable to various interface.

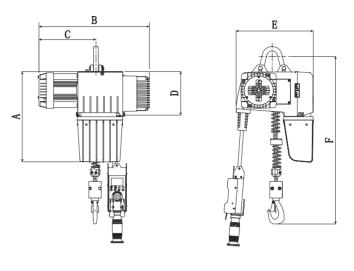
E2 Stepless Gear Handle(for select): Four gear speeds, the maximum speed range for each gear can be set according to the customer's actual production needs. The speed is displayed in real-time. Tablet press style control with sensitive induction, especially suitable for precise control at ultra-low speeds.

## Product Specifications and Dimensions

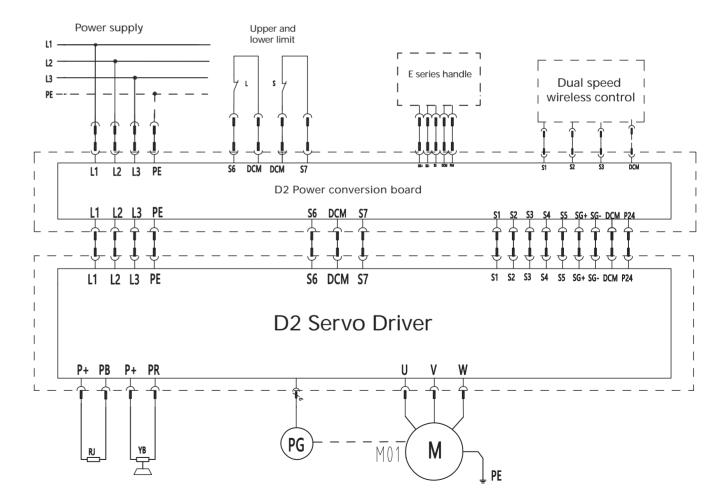
Model Item name			D2C050-D2 D2C050-E2				
Maximum load(Kg)	125	250	500	1000	2000 (Double chain)		
Standard speed (m/min)	0-16	0-16	0-10	0-8	0-4		
Customized speed (m/min)	0-20	0-20	0-17	0-15	0-7.5		
Rated power(KW)	0.75	0.75	1.1	2.2	2.2		
Vertical maximum stroke(m)	4/5/8/11(customizable)						
Control mode	Wire control button/remote control button						
Self Weight(Kg)	24	24	30	60	67		
Chain specificat- ions(mm)	5.0	5.0	5.0	7.1	7.1		
Voltage	standard 380V(optional 220V)						
Working level of the organization	3m/M6	3m/M6	3m/M6	2m/M5	2m/M5		
Working temperature(°C)			-10℃~55℃				

Note: The above data is for selection reference only, and the actual data based on the product nameplate

## Product Specifications and Dimensions



## Wiring Diagram



Note: For reference only, the actual line is subject to the product manual

Model	А	В	С	D	E	F
D2C012-E2	346	424	219	167	296	h < 430
D2C025-E2	346	424	219	167	296	h<430
D2C050-E2	350	468	260	188	313	h<467
D2C100-E2	446	546	303	233	349	h<620
D2C200-E2	446	546	303	233	349	h < 700

#### Outline Specification (Unit: mm)

# **D2 Series** Variable Frequency Chain Hoist



## Handle for selecting



Wireless controller

## Product Brief

It adopts aluminum shell, which is lightweight and sturdy. Adopting low headroom, servo drive control and special servo motors, which enable to achieve function of adjustable speed. At low speeds, it can be lower than half of the conventional gear. At high speeds, it can be higher than 50% of the conventional gear. Smooth operation and low vibration during lifting. The operation has no impact, low failure rate and complete protection functions, enable it has long product life. And multiple reserved interfaces, which is convenient for automation control.

## Product Features

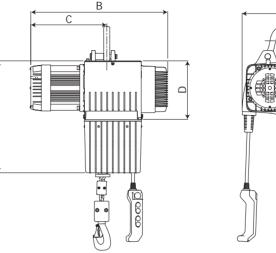
- Customized frequency conversion drive and variable frequency motor, which is reliable and stable
- The system has soft limit, reducing the risk of collision and providing flexible working range.
- Speed range (customizable), can be 1/2 lower than conventional gear at low speeds, and 50% higher than conventional gear at high speeds (when rated load is less than 10%)
- Low noise. Smooth operation without vibration. High precision.
- Comprehensive and multiple protection functions ensure safe and stable operation.
- Compared to traditional hoist, it has faster response speed, more reliable operation, lower malfunctions rate, and longer product life.
- And multiple interfaces reserved for automation control.
- It is equipped with a built-in remote control module, which can control the electric trolley and large trolley.

## Product Specifications and Dimensions

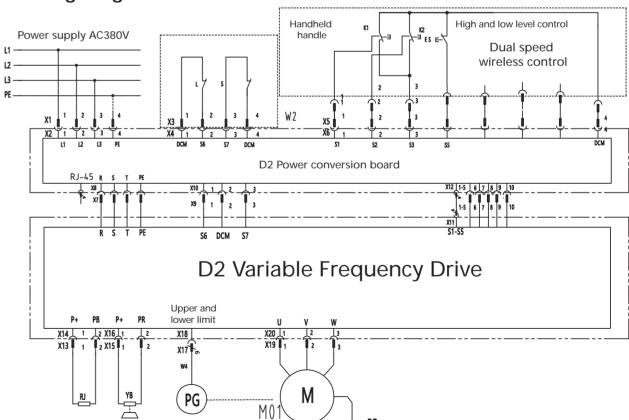
Model Item name	D2B012	D2B025	D2B050	D2B100	D2B200
Maximum load(Kg)	125	250	500	1000	2000 (Double chain)
Standard speed (m/min)	1/12	1/12	1/8	1/8	0.5/4
Customized speed (m/min)	0.5/12	0.5/12	0.5/8	0.5/8	_
Rated power(KW)	0.75	0.75	1.1	2.2	2.2
Vertical maximum stroke(m)		4/5/8/11(	customizab	le)	
Control mode	Wire co	ntrol button	/remote cor	trol button	
Self Weight(Kg)	24	24	30	60	67
Chain specificat- ions(mm)	5.0	5.0	5.0	7.1	7.1
Voltage	standard 380V(optional 220V)				
Working level of the organization	3m/M6	3m/M6	3m/M6	2m/M5	2m/M5
Working temperature(°C)			-10°C~55°C		

Note: The above data is for selection reference only, and the actual data based on the product nameplate

## Product Specifications and Dimensions



Wiring Diagram



Note: For reference only, the actual line is subject to the product manual



#### Outline Specification (Unit: mm)

model	А	В	С	D	E	F
D2B012	346	424	219	167	296	h<430
D2B025	346	424	219	167	296	h < 430
D2B050	350	468	260	188	313	h<467
D2B100	446	546	303	233	349	h<620
D2B200	446	546	303	233	349	h < 700

PF

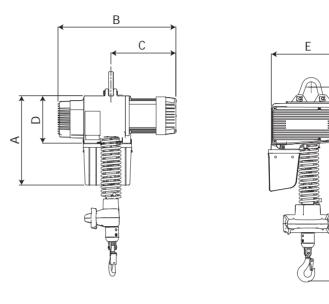
## **D2 Series Paddle Type Hoist**



## Product Features

- The system has soft limit, reducing the risk of collision and providing flexible working range.
- Handle design adopts ergonomic, so it is comfortable. Equipped with double-side control paddles. It can easily be controlled by one hand. And both hands can switch freely.
- Stepless speed change enable millimeter level movement. Not only can achieve precise position, but also have smooth operation. Fully utilize the fast, accurate and stable characteristics of smart hoist.
- Suitable for various workstation. Not only reduce labor intensity but also achieve smart assembly. At the same time, it can ensure working efficiency.

## Product Specifications and Dimensions

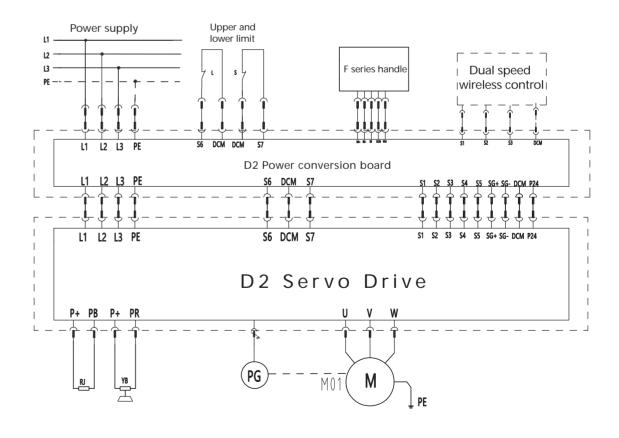


## Product Specifications and Dimensions

Model Item name	D2B012-F D2C012-F	D2B025-F D2C025-F	D2B050-F D2C050-F
Maximum load(Kg)	125	250	500
Lifting speed - dual speed (m/min)	1/12	1/12	1/8
Lifting speed - stepless speed(m/min)	0-16	0-16	0-10
Rated power(KW)	0.75	0.75	1.1
Vertical maximum stroke(m)	2.8	)	
Control mode		frequency d s speed chan	
Self Weight(Kg)	25	25	31
Chain specifications (mm)	5.0	5.0	5.0
Voltage	standard	380V(optional	220V)
Working level of the organization	3m/M6	3m/M6	3m/M6
Working temperature(°C)		-10℃~55℃	

Note: The above data is for selection reference only, and the actual data based on the product nameplate

## Wiring Diagram





#### Outline Specification (Unit: mm)

Model	А	В	С	D	E	F
D2B012-F D2C012-F	346	424	219	167	296	h<830
D2B025-F D2C025-F	346	424	219	167	296	h<830
D2B050-F D2C050-F	350	468	260	188	313	h<867

## **D3 Series Workstation Smart Hoist**

## Product Brief

It adopts aluminum shell, which is lightweight and sturdy. And we have a unique patented technology, servo system controlled by industrial processors, which help D3 series workstation smart hoist improve lifting speed and assembly accuracy. It combines high technology and human action instructions, which makes it easier to move heavy object. Jinzhou smart hoist can maximize production efficiency and reduce the physical pressure of worker. At the same time, it can reduce product damage rate and industrial accident.

## Product Features

#### 01 HANDLE/SUSPENSION DUAL MODE

#### Handle mode:

According with ergonomics. Person with one hand can operate.

## Suspension mode:

It can move easily through handle. It can also directly move the item to precise position.

#### 02 STEPLESS SPEED CHANGE/CONTROLLABLE SPEED

The speed change according to the action speed of operators. It is suitable for situation that require different speed to achieve precise position.

## 03 PRECISE POSITIONING FUNCTION

 $\left( \begin{array}{c} r \\ r \\ r \\ r \end{array} \right)$  Enable operator to move precise equipment and fragile products accurately and smoothly.

#### 04 SAFE AND RELIABLE

#### Overload protection function:

Automatic weight induction system. It will give an alarm and stop working when it senses overload.

#### Photoelectric induction function:

There is an integrated photoelectric sensor in the handle. Only after sensing that the operator is in place can the hoist be operated, which can prevent accidental contact.

#### Anti rebound function:

Prevent sudden changes in weight from causing movement and rebound, which can eliminate potential security risks.

#### (b) Power off protection function:

When the power supply fails, the safety brake automatically locks, the load will not fall.

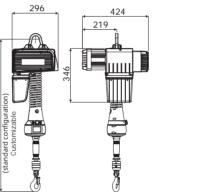
#### **Soft limit function:**

The system has soft limit, reducing the risk of collision and providing flexible working range.

## Product Specifications and Dimensions

Model Item name	D3L012	D3L025	D3L050			
Maximum load(Kg)	125	250	500			
lifting speed(m/min)	0-16	0-16	0-10			
Rated power(KW)	0.75	0.75	1.1			
Vertical maximum stroke(m)	2.8(customizable)					
Control mode	Coaxial sliding handle					
Self Weight(Kg)	27	27	33			
Chain specifications (mm)	5.0	5.0	5.0			
Voltage	standard 380V(optional 220V)					
Working level of the organization	3m/M6	3m/M6	3m/M6			
Working temperature(°C)	-10℃~55℃					

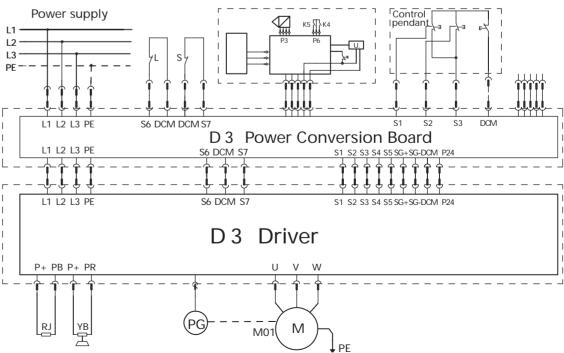
Note: The above data is for selection reference only, and the actual data based on the product nameplate



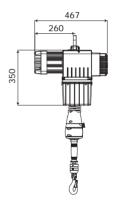


D3L012/D3L025 series product size

## Wiring Diagram



Note: For reference only, the actual line is subject to the product manual

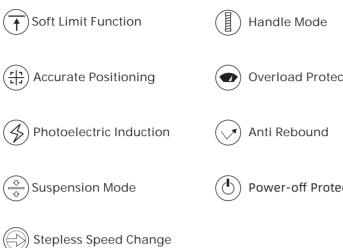


D3L050 series product size

## Q6 Series Workstation **Smart Hoist**

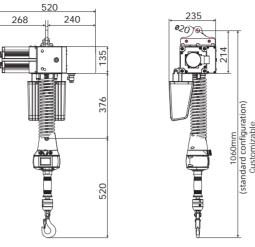
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## Product Features



# **Overload Protection** Power-off Protection

## Product Specifications and Dimensions



Q6L010/Q6L020 series product size

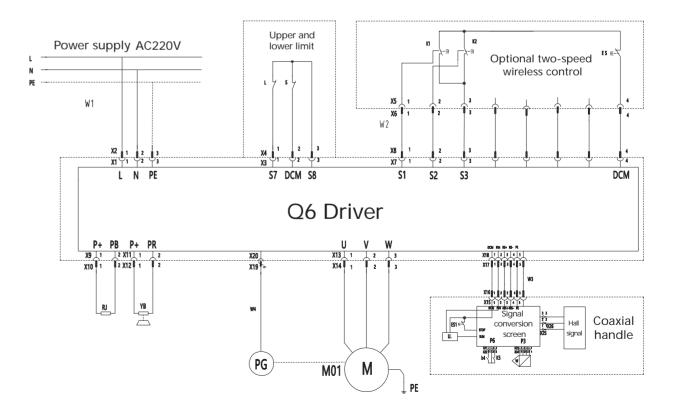
## Product Specifications and Dimensions

Model Item name	Q6L010	Q6L020	Q6L030	Q6L050	Q6L060	
Maximum load(Kg)	100	200	300	500	600	
lifting speed (m/min)	0-16	0-13	0-11	0-10	0-8	
Rated power(KW)	0.55	0.75	1.1	1.5	1.5	
Vertical maximum stroke(m)	2.8(customizable)					
Control mode		Coaxia	ıl sliding h	andle		
Self Weight(Kg)	37	37	48	48	48	
Chain specificat- ions(mm)	5.0	5.0	6.3	6.3	6.3	
Voltage		nal 380V)				
Working level of the organization	3m/M6					
Working temperature(°C)			-10℃~55℃			

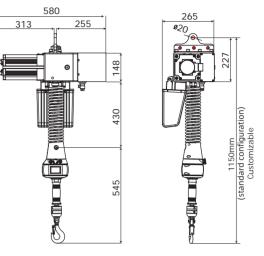
Note: The above data is for selection reference only, and the actual data based on the product

nameplate.

# Wiring Diagram



Note: For reference only, the actual line is subject to the product manual.



Q6L030/Q6L050/Q6L060 series product size

## **X3** Series Workstation **Smart Hoist**



## Product Features

- It adopts steel wire rope structure to replace chain structure to achieve higher precision requirements and faster speed.
- The system has soft limit, reducing the risk of collision and providing flexible working range.
- The fastest speed can reach 30m/min. The slowest speed can reach 0.05m/min. Ensuring operator to move precise instruments and fragile products accurately and smoothly.
- Wrapping multiple steel wire ropes into thick ropes, which avoids rotation so it is more stable. It equipped with planetary reducer, so it can reduce noise during operation.

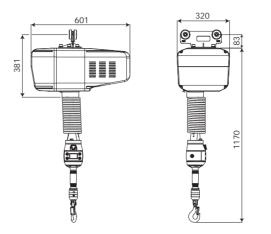
## Product Specifications and Dimensions

Item name Model	X3S010	X3S020	X3S030	X3S060			
Maximum load(kg)	100	200	300	600 (Double rope)			
* Maximum lifting speed handle mode(m/min)	35	29	25	10			
* Maximum lifting speed suspension mode(m/min) Optional	25	25	18	9			
Rated power(Kw)	0.8	0.8	1.1	1.1			
Vertical maximum stroke (m)	2.5	2.5	2.5	1.6			
Control mode	Coaxial pressure handle						
Self Weight(Kg)	66	66	66	68			
Voltage	standard 220V(optional 380V)						
Working level of the organization	3m/M6	3m/M6	3m/M6	2m/M5			
Ambient temperature (non-condensing)	-10℃-55℃						

\*1. The speed data is for reference only, based on the product nameplate; 2. The fastest and slowest speed can be customized according to needs.

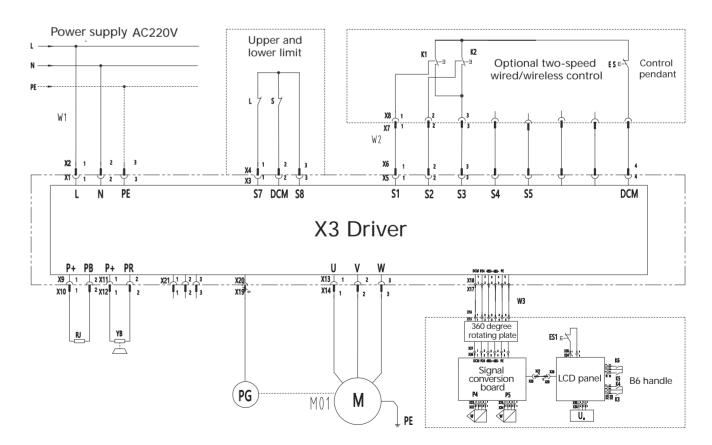
Note: The above data is for selection reference only, and the actual data based on the product nameplate

## Product Specifications and Dimensions

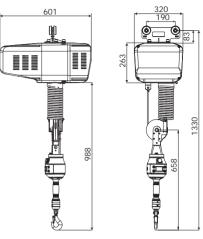


X3S010/X3S020/X3S030 series product size

## Wiring Diagram



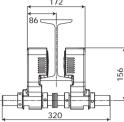
Note: For reference only, the actual line is subject to the product manual.

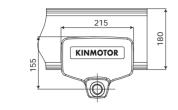


X3S060 series product size

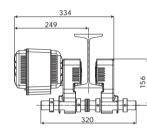
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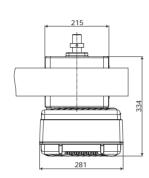




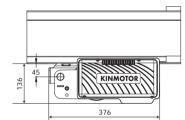


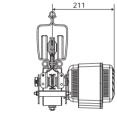
# Variable Frequency Trolley





## ED2-220

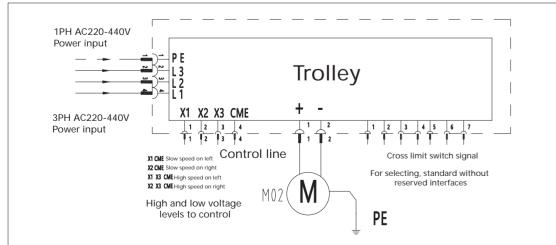




#### ED2-220H

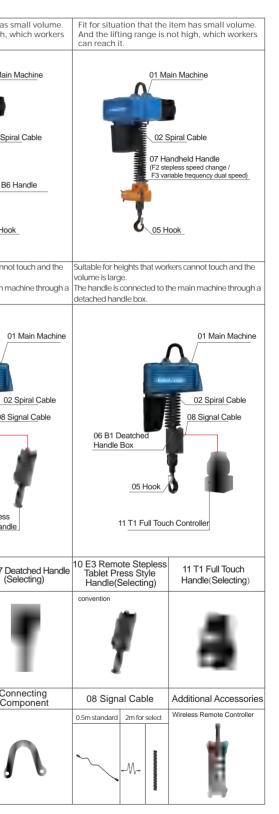
Model	Maximum load(kg)	Full load speed (m/min)	No-load speed (m/min)	Self weight (kg)	Width of H-beam (mm)	Radius of the curve (mm)
ED2-220	2000	5-8	30	8	74-200	2000
ED2-220H	2000	5-8	30	8	/	1000

## Wiring Diagram



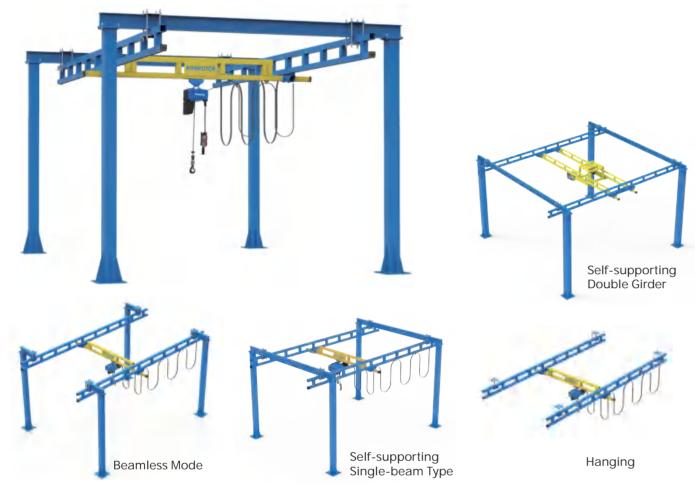
Note: For reference only, the actual line is subject to the product manual.

	item has small volume. not high, which workers	Fit for situation that the And the lifting range is r can reach it.	
	01 Main Machine 02 Spiral Cable 03 B4 Coaxial Sliding Handle 05 Hook		01 Mai 02 Sp 04 B
uitable for heights that wo	rkers cannot touch and the	Suitable for heights that wor	kers cann
olume is large.	the main machine through a	volume is large. The handle is connected to t detached handle box.	
06 B1 Deatched Handle Box 05 Hook 09 B7 Deatched		06 B1 Deatched Handle Box 05 Hook 10 E3 Remote Tablet Press S	
03 B4 Handle (Standard)	04 B6 Handle (Selecting)	07 Handheld Handle (Selecting)	09 B7 [ (
vithout gas circuit	without gas circuit Equipped with a 360 ° electric slip ring	F2 stepless speed change / F3 vanable frequency dual speed	Co
Classification	Components	Slip Ring(Selecting)	C
125kg 250kg 500kg	Rotating components detachment hook	٠	d





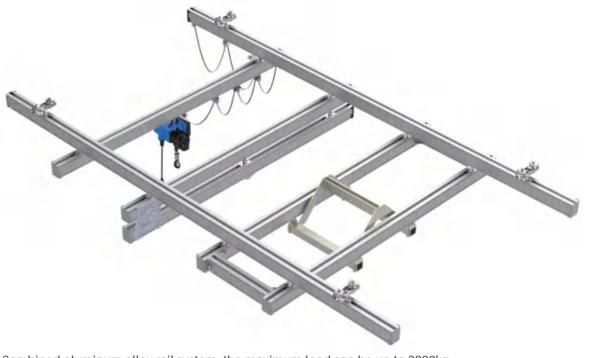




The modular crane can undertake frequent material conveying and handling tasks. It can be installed on ordinary 15cm thick reinforced concrete floors, and can be easily expanded with the expansion of work units using the standard modular design structure.

## Truss Model Size

Lifting Capacity(Kg	g) Model	Span (m)	Hei (n	<u> </u>	Longitudinal travel(m)
125	JZ-L-125				
250	JZ-L-250				
500	JZ-L-500	2-7 2.5	2.5-4	Customized	
1000	JZ-L-1000				
2000	JZ-L-2000				
Annelissiste	D2 servo chain	hoist		D3 s	series intelligent ho
Applicable Models	D2 inverter cha	D2 inverter chain hoist			series intelligent ho
models	D2 series toggl	e chain ho	oists	X3 s	eries intelligent ho



Combined aluminum alloy rail system, the maximum load can be up to 2000kg. The overall modular design, ergonomic, light weight, high flexural strength and wear resistance. Relying on the anodized surface treatment and its own anti-corrosion, the product is very suitable for clean factories, fast working rhythm and high-precision processing conditions. The whole system is linked precisely, the parts run smoothly, the rolling resistance is small, and the mute effect is remarkable.

## Rail Type





Single-rail type

Suitable for material work stations for straight-line conveying Suitable for material loading work stations for heavy straight-line conveying

Double-rail type

## Aluminum Model Dimensions

Lifting Capacity(Kg)	Model	Span (m)	Height (m)	Longitudinal travel(m)		D2 servo chain hoist									
125	JZ-K-125					D2 inverter chain hoist									
250	JZ-K-250						Applicable	D2 series toggle chain hoists							
500	JZ-K-500	2-7	2.5-4	Customized		D3 series intelligent hoist									
1000	JZ-K-1000		2.0												Q6 series intelligent hoist
2000	JZ-K-2000					X3 series intelligent hoists									



Single-beam type Suitable for dead-angle-free coverage any position within the area



Double-beam type

Suitable for large span and large loads work stations that cannot be met by a single girder





## Rigid Track Intelligent Jib Crane

Maximum load 500kg, jib length up to 4 meters, 360°swivel, limit stops can be added, lightweight manual operation. In most cases, it can be bolted directly to the ground without adding special foundation. Tapered roller bearings are used at the swivel to ensure that the jib is centered with the swivel to avoid unnecessary undulation of the jib.

Lifting Capacity (Kg)	Model	Height (m)	Arm Length (m)
125	JZ-A-125		
250	JZ-A-250	2-3.5	2-4
500	JZ-A-500		

Angliaghte	D2 servo chain hoist	D3 series intelligent hoist
Applicable Models	D2 inverter chain hoist	Q6 series intelligent hoist
models	D2 series toggle chain hoists	X3 series intelligent hoists

## Full Frequency Conversion Electric Intelligent Jib Crane

Maximum load 2000kg, arm length up to 6 meters, can realize electric rotation and manual rotation, using well-known brand rotary motor, installed on the ground, according to the span and weight to determine whether it is necessary to pre-buried to do the foundation.

Lifting Capacity (Kg)	Model	Height (m)	
500	JZ-B-500		
1000	JZ-B-1000	2.5-6	
2000	JZ-B-2000		

Applicable models	D2 servo chain hoist	D2 inv
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(can be used in combination with electric/manual trolley)

Arm Length (m)	
2-6	
verter chain hoist	]



## Aluminum Alloy Intelligent Jib Crane

Maximum load of 500 kg, arm length up to 4 m. 360° rotation, can be added limit stops, manual operation is light. The jib is made of aluminum alloy with anodized sandblasted track surface, suitable for clean environments or fast working conditions.

Lifting Cap (Kg)	acity	Model	H	eight (m)	Arm Length (m)
125		JZ-C-125			
250		JZ-C-250	2-3.5		2-4
500		JZ-C-500			
Applicable	D2 servo chain hoist			D3 serie	es intelligent hoist
Applicable Models		rter chain hoist	Q6 series intelligent ho		es intelligent hoist
Models	D2 serie	es toggle chain ho	bists X3 series intelligent h		es intelligent hoists



## Mobile Intelligent Folding Jib Crane

Maximum load of 200kg, boom length up to 3 meters, 360 ° rotation, can be added limit stops, manual operation of lightweight, with removable counterweight base and legs, according to the need to adjust the use of the position of the car or hand push.

Lifting Capacity (Kg)	Model	Height (m)	
100	JZ-D-100	2.2	
200	JZ-D-200	2-3	

Applicable Models X3 series intelligent lifter





## Rear-mounted Intelligent Folding Jib Crane

The whole is made of stainless steel, no spraying, suitable for clean working conditions, maximum load 300kg, arm length up to 4 meters (2m+2m), one arm 360° two arm 270° rotation, with adjustable damping block, with intelligent hoist, hand control and suspension, can be used with fixture.

Lifting Capacity (Kg)	Model	Height (m)	Arm Length (m)
100	JZ-E-100		
200	JZ-E-200	2-3.5	2-4
300	JZ-E-300		

Applicable Models X3 series intelligent lifter



## Front-mounted Intelligent Folding Jib Crane

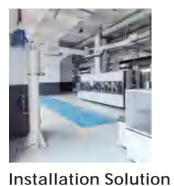
Maximum load 300kg, boom length up to 4m(2m+2m), one boom 360°, two boom 270°swivel, with adjustable damping block, flexible operation, accurate positioning.

Lifting Capacity (Kg)	Model	Height (m)	1
100	JZ-F-100		
200	JZ-F-200	2-3.5	
300	JZ-F-300		

Applicable Models	D2 servo chain hoist	D3 series in
	D2 inverter chain hoist	Q6 series in
	D2 series toggle chain hoists	X3 series int



Arm Length (m)		
2-4		
ntelligent hoist		
ntelligent hoist		
ntelligent hoists		





















Of Knuckle-boom Crane



Installation Solution Of Cantilever Crane









Light Runways Installation Solution







